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(54) IMPROVEMENTS IN AND RELATING TO AN
ASSEMBLY OF A LOUD SPEAKER AND
MOUNTING MEANS THEREFOR

(71) We, PAUL RITCHIE FILLERY, of 66 Gipsy Lane, Wokingham, NORMAN HENRY DENYER of 19 Mickle Hill, Little Sandhurst, Camberley and JOHN EDWARD MILLARD of 2 Plaice Green, Wokingham, all British subjects, trading as HI-FI AIDS, of The Grove, London Road, Twyford, Berkshire, do hereby declare the invention for which we pray that a patent may be granted to us and the method by which it is to be performed to be particularly described in and by the following statement:—

The present invention relates to an assembly of a loud speaker and mounting means for mounting the speaker on a support.

According to the present invention there is provided an assembly including a loud speaker and mounting means therefor, the mounting means having a first speaker attachment part attached to a face of the speaker and a second part for attachment to a support, the two parts being relatively pivotable about an axis so that, in use, the mounted speaker can be adjusted relative to the support about the axis, wherein projecting means are provided projecting from one of the first attachment part and the face of the speaker which are engaged with the other of the first attachment part and the face of the speaker to attach the speaker to the mounting means.

The first part of the mounting means may be coupled to the second part for pivotable movement relative thereto about a single axis or two perpendicular axes.

The present invention will be more fully understood from the following description of embodiments thereof, given by way of example only, with reference to the accompanying drawings in which Figures 1 to 3 are perspective views of three mounting means forming parts of embodiments in accordance with the invention, Figure 2A provided with an adjustable abutment

showing a modification of the embodiment of Figure 2.

In the embodiments of the invention described below in greater detail, a loud speaker (not shown) is supported by a single mounting unit 11 comprising an attachment member 12 secured to the rear face of the speaker and a wall plate 13 adapted to be secured to a wall or other fixed support surface, the attachment member 12 and wall plate 13 being connected together by means allowing the speaker to be adjusted about a vertical axis and in some cases also about a horizontal axis.

In one such embodiment shown in Figure 1, the attachment member 12 is a T-shaped plate which is applied against the rear face of the speaker and is provided near the two ends of its cross arm with holes 14 for securing screws screwed into and projecting from the rear face of the speaker. A hinge lug (not shown) projecting rearwardly from this plate 12 rests on a hinge lug 15 projecting forwardly from the wall plate 13, the two hinge lugs being interconnected by a vertical pivot pin 16 so that the speaker can be adjusted in azimuth. The T-shaped plate may, as shown, be formed as one piece or may comprise a separate cross arm screwed to the upright or stem of the T.

In the modification, shown in Figure 2, the T-shaped plate 12, which may be of one or two pieces as in the embodiment of Figure 1, is similarly pivotally connected to the front end of an intermediate member 17, whose rear end engages between the flanges 18 of a channel section wall plate 13 and is pivotally connected to them by a horizontal bolt 19 which can be tightened sufficiently to make the pivotal connection friction-tight. In addition, as shown in Figure 2A, the member 17 may be provided with an adjustable abutment

member, as shown a bolt, threaded into member 17, which abuts against the base of the channel of plate 13. The speaker can thus be adjusted both in azimuth and in elevation. A hole 20 for a third securing screw screwed into the rear face of the speaker is provided at the lower end of the stem of the T-plate 12, to support the speaker when it is directed downwardly.

In cases where the speaker to be mounted is provided on its rear face with a centrally disposed key-hole slot (intended for hanging the speaker on the projecting head of a screw or nail fixed in a wall), the T-plate carries in the centre of its cross arm a forwardly projecting headed stud which can be engaged in the slot.

Where the speaker to be mounted is provided on its rear face with two such key-hole slots spaced horizontally apart, the attachment member of the mounting unit is provided with two such studs. To permit the same unit to be used with speakers having their key-hole slots at different distances apart, the attachment member may in this case, as shown in Figure 3, comprise a vertically extending attachment member or bar 12, the front face of which has its upper portion 22 recessed. This member 12 may be the same as the stem of the T-shaped plate of the embodiments of Figure 1 and 2, where the cross arm is separate. Two arms 23, each of which carries at its outer end a stud 24 for engaging one of the key-hole slots, have their inner ends secured to the recessed portion of the bar by rearwardly extending flat headed dowels 25 which are secured on the rearward side of the bar by, e.g. a spring clip or nut. The arms are held in the required angular position by engagement of the studs in the key-hole slots. The front faces of the arms and of their securing dowels lie in the same plane as the unrecessed portion of the bar 12 so as to fit flush against the rear face of the speaker. By adjusting the angular positions of the arms, the distance apart of the two studs can be varied to suit the particular speaker to be mounted. The bar 12 is pivotally connected to the wall plate 13 as in the embodiment of Figure 1.

WHAT WE CLAIM IS:—

1. An assembly including a loud speaker and mounting means therefor, the mounting means having a first speaker attachment part attached to a face of the speaker and a second part for attachment to a support, the two parts being relatively pivotable about an axis so that, in use, the mounted speaker can be adjusted relative to the support about the axis, wherein projecting means are provided projecting from one of the first attachment part and the face of the speaker which are engaged with the other of the first attachment part and the face of the speaker to attach the speaker to the mounting means.

2. An assembly according to claim 1, wherein the first and second parts of the mounting means are relatively pivotable about two perpendicular axes.

3. An assembly according to claim 2, wherein the mounting means include an intermediate part connected to the first and second parts, the first part and second part being pivotable relative to the intermediate part about the one axis and the other axis respectively.

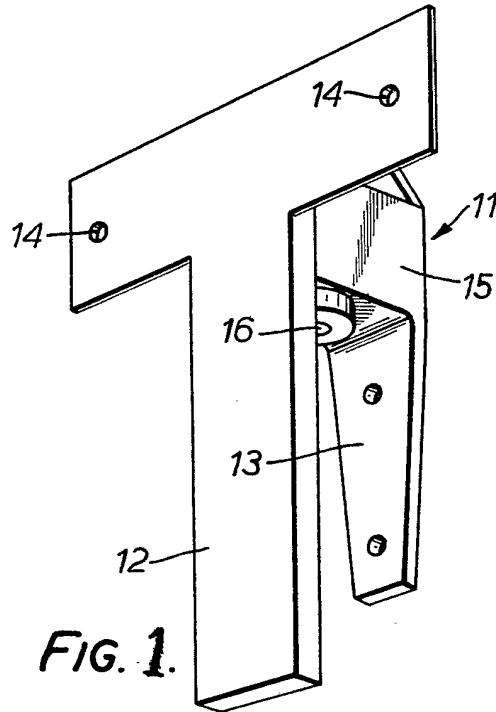
4. An assembly according to any one of the preceding claims wherein the projecting means are provided on the first part, the projecting means being engaged in slot means in the face of the speaker.

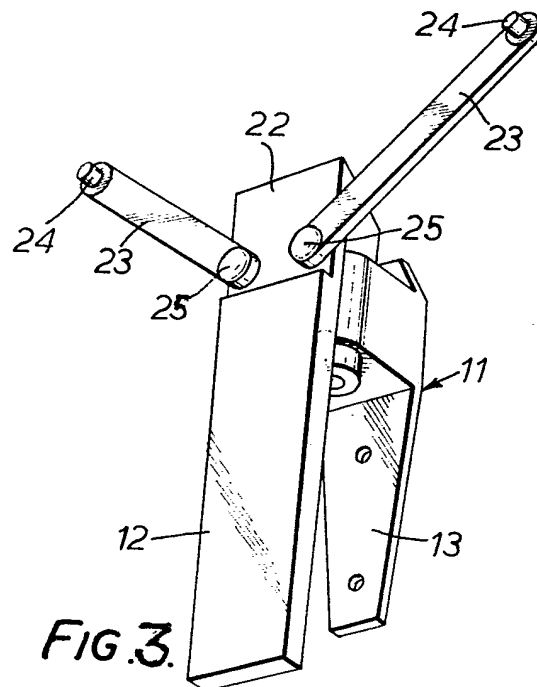
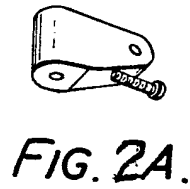
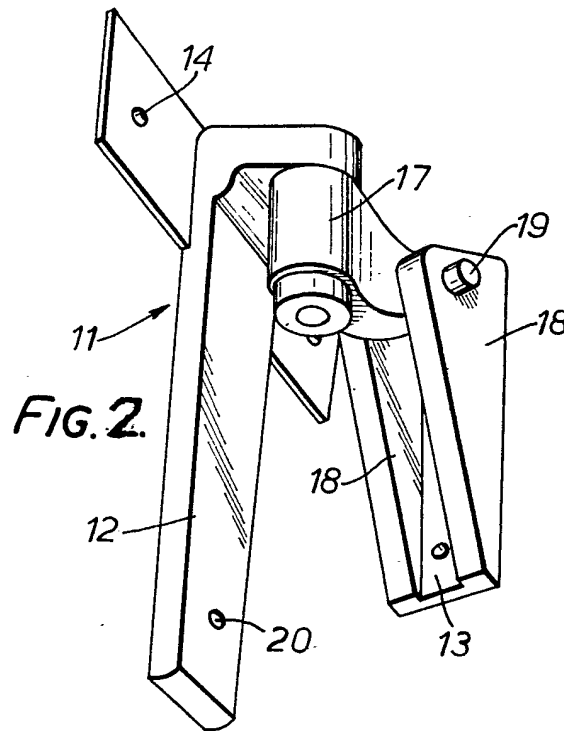
5. An assembly according to any of the preceding claims, wherein the first part includes a pair of relatively pivotable arms each provided with a projection engaged in a slot in the speaker.

6. An assembly according to any of claims 1 to 3, wherein the projecting means comprise screws engaged in apertures provided in the first part and screwed into the face of the speaker to project therefrom.

7. An assembly including a loud speaker and mounting means therefor substantially as herein described with reference to the accompanying drawings.

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TITLE: Hinged mounting for loudspeaker
has two hinged parts respectively
attached to speaker and support

PATENT-ASSIGNEE: HI-FI AIDS[HIFIN]

PATENT-FAMILY:

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ABSTRACTED-PUB-NO: GB 1463802 A

BASIC-ABSTRACT:

The mounting (11) has a first part (12) connected to a loudspeaker, and a second part (18) pivotable relative to the first part (11) and arranged to be attached to a support e. g. a wall. The speaker can thus be pivoted relative to the support.

An intermediate part (17) is connected between the first and second parts (11, 18) such that the first and intermediate parts (12, 17) are relatively pivotable about a vertical axis and the second and intermediate parts (18, 17) are relatively pivotable about a horizontal axis (19).

TITLE-TERMS: HINGE MOUNT LOUDSPEAKER TWO
PART RESPECTIVE ATTACH SPEAKER
SUPPORT

DERWENT-CLASS: P27